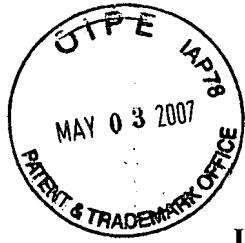


05-04-07

IPW \$  
cc



Docket No.: 02008/105002  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Shinsaku Higashi et al.

Application No.: 10/814,603

Confirmation No.: 5472

Filed: March 31, 2004

Art Unit: 2123

For: TEST EMULATOR, TEST MODULE  
EMULATOR AND RECORD MEDIUM  
STORING PROGRAM THEREIN

Examiner: M. C. Jacob

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

22511  
PATENT TRADEMARK OFFICE

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. ~~37 CFR 1.98(a)(2)(ii)~~ patents and U.S. patent applications. Applicant submits herewith <sup>31</sup> ~~11~~ copies of foreign patents and <sup>100</sup> ~~100~~ non-OP patent literature in accordance with 37 CFR 1.98(a)(2).

A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0591, under Order No. 02008/105002.

Dated: May 3, 2007

Respectfully submitted,

By   
Thomas K. Scherer  
Registration No.: 45,079  
OSHA · LIANG LLP  
1221 McKinney St., Suite 2800  
Houston, Texas 77010  
(713) 228-8600  
(713) 228-8778 (Fax)



Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Effective on 12/08/2004.</b> <b>Fee pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b>		<b>Complete if Known</b>	
<b>FEE TRANSMITTAL</b>		Application Number	10/814,603-Conf. #5472
<b>For FY 2007</b>		Filing Date	March 31, 2004
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		First Named Inventor	Shinsaku Higashi
<b>TOTAL AMOUNT OF PAYMENT</b> <b>(\$)</b> <b>180.00</b>		Examiner Name	M. C. Jacob
		Art Unit	2123
		Attorney Docket No.	02008/105002

<b>METHOD OF PAYMENT</b> (check all that apply)							
<input type="checkbox"/> Check <input checked="" type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____							
<input checked="" type="checkbox"/> Deposit Account   Deposit Account Number: <u>50-0591</u> Deposit Account Name: <u>Osha · Liang LLP</u>							
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)							
<input type="checkbox"/> Charge fee(s) indicated below				<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee			
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17				<input checked="" type="checkbox"/> Credit any overpayments			

<b>FEE CALCULATION</b>																					
<b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>																					
<b>Application Type</b>	<b>FILING FEES</b>		<b>SEARCH FEES</b>		<b>EXAMINATION FEES</b>																
	<b>Fee (\$)</b>	<b>Small Entity Fee (\$)</b>	<b>Fee (\$)</b>	<b>Small Entity Fee (\$)</b>	<b>Fee (\$)</b>	<b>Small Entity Fee (\$)</b>	<b>Fees Paid (\$)</b>														
Utility	300	150	500	250	200	100	_____														
Design	200	100	100	50	130	65	_____														
Plant	200	100	300	150	160	80	_____														
Reissue	300	150	500	250	600	300	_____														
Provisional	200	100	0	0	0	0	_____														
<b>2. EXCESS CLAIM FEES</b>																					
<b>Fee Description</b>																					
Each claim over 20 (including Reissues) <b>Small Entity Fee (\$)</b> <b>Fee (\$)</b>																					
Each independent claim over 3 (including Reissues) <b>50</b> <b>25</b>																					
Multiple dependent claims <b>200</b> <b>100</b>																					
Multiple dependent claims <b>360</b> <b>180</b>																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%; text-align: center;"><b>Total Claims</b></td> <td style="width: 33.33%; text-align: center;"><b>Extra Claims</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee Paid (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Multiple Dependent Claims</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee Paid (\$)</b></td> </tr> <tr> <td colspan="3" style="text-align: center;">- = _____</td> <td colspan="4" style="text-align: center;">x _____ = _____</td> </tr> </table>								<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	- = _____			x _____ = _____			
<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>															
- = _____			x _____ = _____																		
HP = highest number of total claims paid for, if greater than 20.																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%; text-align: center;"><b>Indep. Claims</b></td> <td style="width: 33.33%; text-align: center;"><b>Extra Claims</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee Paid (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee Paid (\$)</b></td> </tr> <tr> <td colspan="3" style="text-align: center;">- = _____</td> <td colspan="3" style="text-align: center;">x _____ = _____</td> </tr> </table>								<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	- = _____			x _____ = _____				
<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>																
- = _____			x _____ = _____																		
HP = highest number of independent claims paid for, if greater than 3.																					
<b>3. APPLICATION SIZE FEE</b>																					
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.33%; text-align: center;"><b>Total Sheets</b></td> <td style="width: 33.33%; text-align: center;"><b>Extra Sheets</b></td> <td style="width: 33.33%; text-align: center;"><b>Number of each additional 50 or fraction thereof</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee (\$)</b></td> <td style="width: 33.33%; text-align: center;"><b>Fee Paid (\$)</b></td> </tr> <tr> <td colspan="3" style="text-align: center;">- 100 = _____ /50 = _____ (round up to a whole number) x _____</td> <td colspan="2" style="text-align: center;">= _____</td> </tr> </table>								<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	- 100 = _____ /50 = _____ (round up to a whole number) x _____			= _____					
<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>																	
- 100 = _____ /50 = _____ (round up to a whole number) x _____			= _____																		
<b>4. OTHER FEE(S)</b>																					
Non-English Specification, \$130 fee (no small entity discount)																					
Other (e.g., late filing surcharge): <u>1806 Submission of an Information Disclosure Statement</u> <b>180.00</b>																					

<b>SUBMITTED BY</b>			
Signature			Registration No. (Attorney/Agent) <b>45,079</b>
Name (Print/Type)	Telephone <b>(713) 228-8600</b>		
	Date <b>May 3, 2007</b>		



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 04-07 version)

Institute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/814,603-Conf. #5472
				Filing Date	March 31, 2004
				First Named Inventor	Shinsaku Higashi
				Art Unit	2123
				Examiner Name	M. C. Jacob
Sheet	1	of	2	Attorney Docket Number 02008/105002	

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AA*	US-2001/016922 A1	08-23-2001	Takasugi et al.		
AB*	US-5,425,036	06-13-1995	Liu et al.		
AC*	US-5,991,907	11-23-1999	Stroud et al.		
AD*	US-6,077,304	06-20-2000	Kasuya		
AE*	US-6,108,806	08-22-2000	Abramovici et al.		
AF*	US-6,202,182	03-13-2001	Abramovici et al.		
AG*	US-2002/0038203-A1	03-28-2002	Tsuchiya		
AH*	US-6,631,487	10-07-2003	Abramovici et al.		
AI*	US-2003/0005375-A1	01-02-2003	Takasugi et al.		

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
BA	JP-2000-267881		09-29-2000	Advantest Corp.	
BB	JP-2002-141414		05-17-2002	Koninkl Philips Electronics NV	
BC	JP-2001-522049		11-13-2001	Credence Systems Corp.	
BD	JP-2001-506367		05-15-2001	Simd Solutions Inc.	
BE	JP-2001-320386		11-16-2001	Nippon Electric Co.	
BF	JP-2000-163456		06-16-2000	Hitachi Ltd.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	Xia J.Q. et al: "Dynamic Test Emulation for EDA-Based Mixed-Signal Test Development Automation" Proceedings of The International Test Conference (ITC). Washington, Oct. 21-25, 1995, New York, IEEE, US, 21 October 1995 (1995-10-21), pages 761-770, XP000552879 ISBN: 0-7803-2992-9			
	CB	Explanation of Circumstances Relating To Accelerated Examination submitted in Japanese Application No. 2004-380598 dated March 1, 2007 and English translation thereof, 8 pages			
	CC	European Search Report issued in European Application No. EP 06 07 7162 dated February 23, 2007, 6 pages			
	CD	Castelnuovo A. et al: "Emulation-based Design Errors Identification" Defect and Fault Tolerance in VLSI Systems, 2002, DFT 2002. Proceedings. 17th IEEE International Symposium on 6-8 Nov. 2002, Piscataway, NJ, USA, IEEE, 6 November 2002 (2002-11-06), pages 365-371, XP010625026 ISBN: 0-7695-1831-1			
	CE	Japanese Office Action "Notification of Reasons for Rejection" issued in Japanese Application No. 2004-380598 mailed on April 3, 2007 and English translation thereof, 7 pages			

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449/PTO				<b>Complete if Known</b>	
				Application Number	10/814,603-Conf. #5472
				Filing Date	March 31, 2004
				First Named Inventor	Shinsaku Higashi
				Art Unit	2123
				Examiner Name	M. C. Jacob
Sheet	2	of	2	Attorney Docket Number	02008/105002

	CF	Dearborn, W.R., Perkins, E.G., Wong, J.J., Rolince, D., The Virtual Test program (VTest), AUTOTESTCON '98. IEEE Systems Readiness Technology Conference, 1998 IEEE, USA, August 27, 1998, pp. 149-159	
	CG	U.S. Office Action issued in U.S. Application No. 10/404,002 mailed on April 9, 2007, 16 pages	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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Application No. (if known): 10/814,603

Attorney Docket No.: 02008/105002

## Certificate of Express Mailing Under 37 CFR 1.10

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Date

  
Signature

Yuki Tsukuda

Typed or printed name of person signing Certificate

N/A  
Registration Number, if applicable

(713) 228-8600  
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Fee Transmittal (1 page)  
IDS (Citation) by Applicant (22 References) (2 pages)  
Information Disclosure Statement (2 pages)  
Payment by credit card. Form PTO-2038 is attached (1 page)  
Charge \$180.00 to credit card  
Return Receipt Postcard